

Atomic Weapons and Atomic Defense

604

Decontamination measures for personnel, materiel, weapons, and  
equipment  
Conclusion

171  
506

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MM/tmb  
10-27-58

12/25/58  
GUSHKO, Aleksey Petrovich, polkovnik, dots. kand.tekhn.nauk; MARKOV,  
Leonid Kus'mich, podpolkovnik, dots., kand.tekhn.nauk; PITYUGIN...  
Lev Pavlovich, podpolkovnik, dots., kand.tekhn.nauk; OLISOV, B.A.,  
prof. doktor tekhn.nauk, general-mayor inzhenerno-tekhnicheskoy  
sluzhby; KADNER, Ya.M., red.; MEDNIKOVA, A.N., tekhn.red.

[Atomic weapons and protection from them] Atomnoe oruzhie i  
protivostoiashaya zashchita. Pod red. B.A.Oliso. Moskva, Voen.  
izd-vo M-va obor. SSSR, 1958. 391 p. (MIRA 11:4)  
(Atomic weapons)

PILYUGIN, V.V.

Our method of raising calves. Veterinariia 33 no.12:24-25  
D '56. (MLBA 9:12)

1. Staryiy veterinarnyy vrach molochno-ovoshchnogo sovkhosa  
Magnitogorskogo metallurgicheskogo kombinata.  
(Calves--Feeding and feeding stuffs)

AGAFONOVA, Z.Ya., kand. biolog. nauk; SERGEV, A.V.; SAMOKHINA, V.I.;  
KIRSAKOV, V., inzh.; PILYUGIN, N.Y.; LUTCHKOVA, N.N.

Responses to our articles. Zashchita i razvitiye zhivotnykh resursov.  
no.2:12-14. 1984.

1. Zashchita i razvitiye zhivotnykh resursov. 2. Opytnyye issledovaniya po razvitiyu i zashchite zhivotnykh resursov gosudarstvennoy sel'skokhozyaystvennoy opyt'noy stantsii (for Struzov). 3. Zashchita i razvitiye zhivotnykh resursov Pskovskoy gosudarstvennoy sel'skokhozyaystvennoy opyt'noy stantsii (for Samokhina). 4. Glavnyy uchebno-metodicheskiy posobie po razvitiyu i zashchite zhivotnykh resursov vannogo otryada Yaroslavskoy stantsii zashchity rasteniy (for Pilyugin). 5. Glavnyy uchebno-metodicheskiy posobie po razvitiyu i zashchite zhivotnykh resursov chity rasteniy (for Lutchkova).

ZIMENKOV, I.A.; RED'KO, V.M.; TITOVSKIY, F.I.; PILYUGINA, I.I.; SAVUN, N.M.

Hydraulic press for stamping spherical bottoms of containers. Suggested  
by I.A.Zimenkov, V.M.Red'ko, F.I.Titovskii, I.I. Piliugina, N.M.Savun.  
Rats. i isobr. predl. v stroi. no. 15:39-40 '60. (MIRA 13:9)

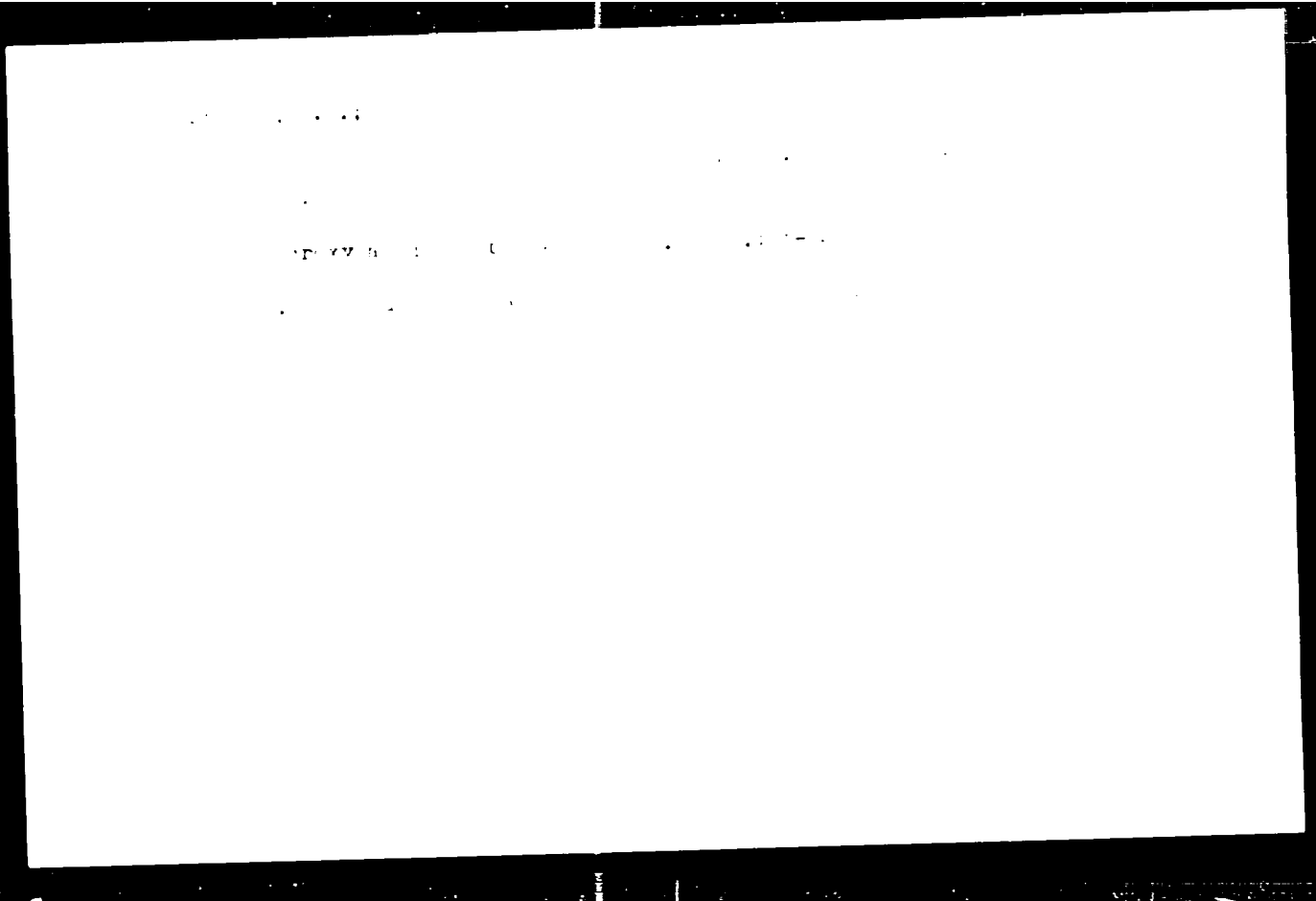
1. Po materialam testa Metallurgmontazh Ministerstva stroitel'stva  
USSR.

(Hydraulic presses)

(Containers)

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PILYUGINA, N.A.

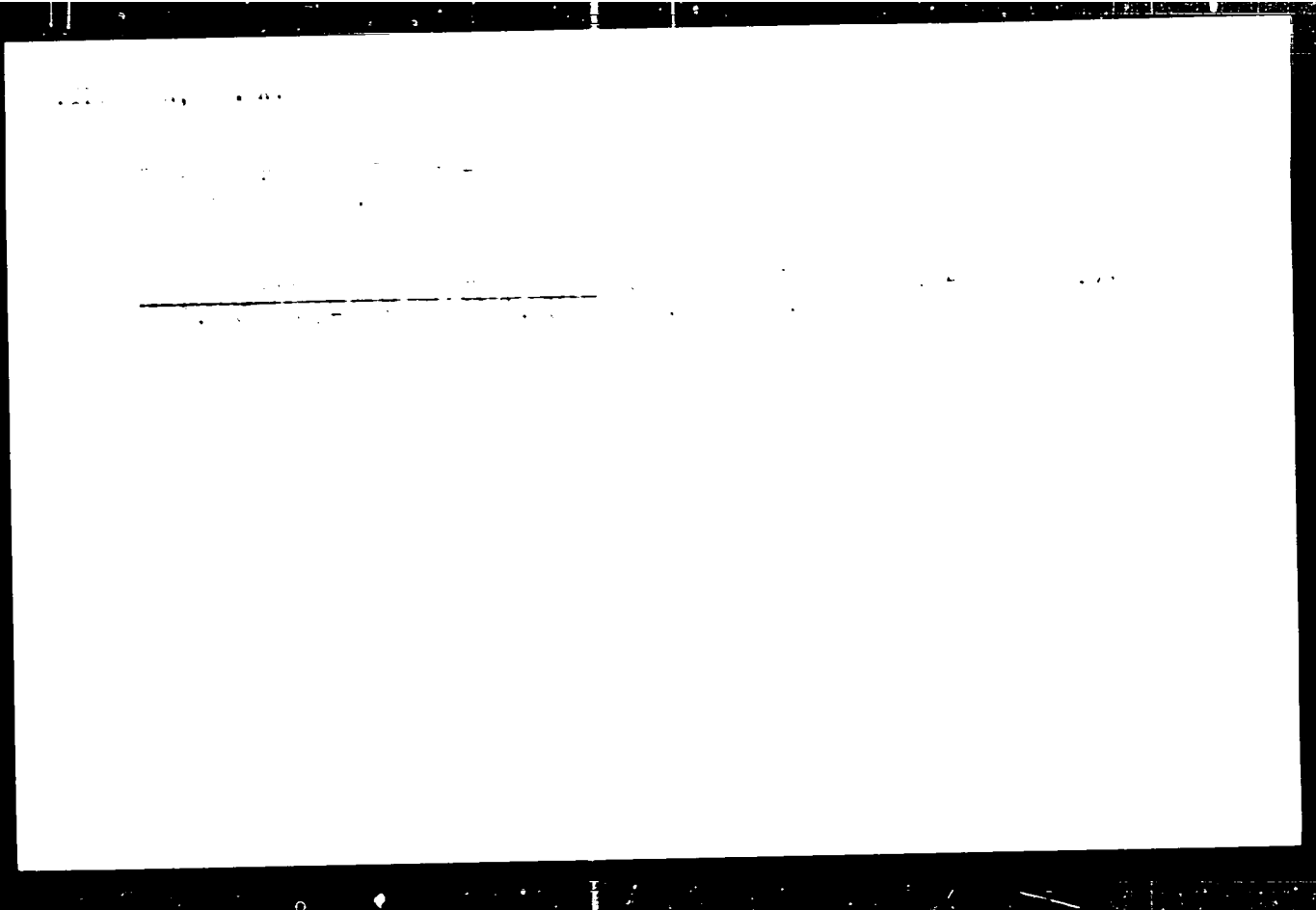
Cutaneous respiration in normal conditions and in some skin diseases. Vest. dermat. i ven. 37 no.2:7-11 P'63. (MIRA 16:10)

1. Iz kafedry kozhnykh bolezney (zav. - prof. A.S.Zenin) i kafedry normal'noy fiziologii (zav. - prof. M.V.Sergiyevskiy) Kuybyshevskogo meditsinskogo instituta.

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P. LYUGINA, O. A.

Harmful Lepidoptera on soy plants in the Krasnodar re-  
gion. A. E. Moiseev and O. A. Pilyugina. *Vsesoyuzn.  
Inst. Soi. i Kishchevny, Vopr. Zhivotn. i Agr. Soi.*  
S.S.S.R. 1953, 146-50. — DDT and BHC are effective.  
Lola R. Rzhigiko

api

2

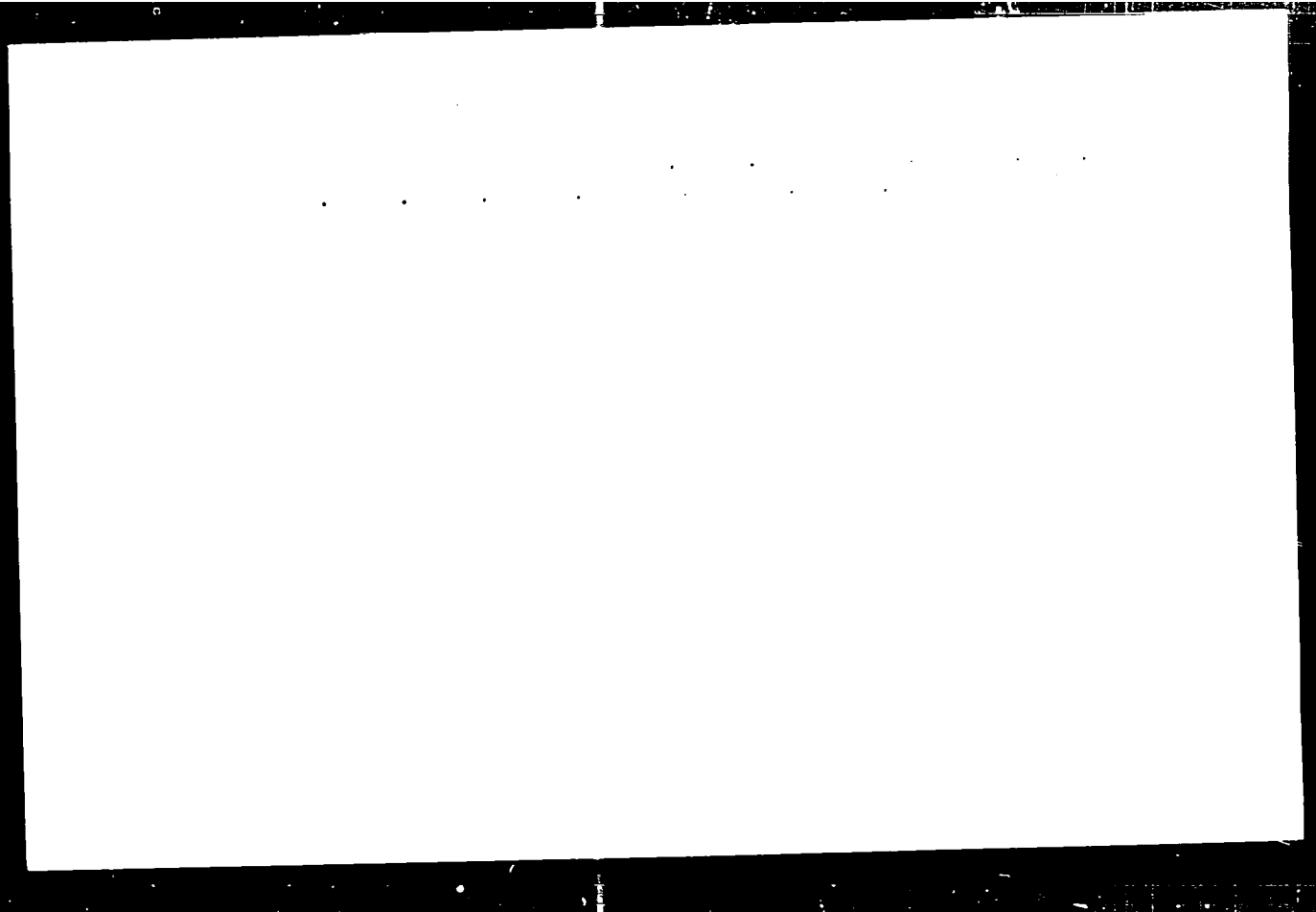
PILYUGIN, P., tyanyl'ahchik

To make lunchrooms. Sov.profsoiuzy s no.11:31-32 N '57. (MIRA 10:11)

1. Predsedatel' komissii obshchestvennogo kontrolya Moskovskogo  
ordena Trudovogo Krasnogo Znameni elektrolampovogo zavoda.  
(Restaurants, lunchrooms, etc.)

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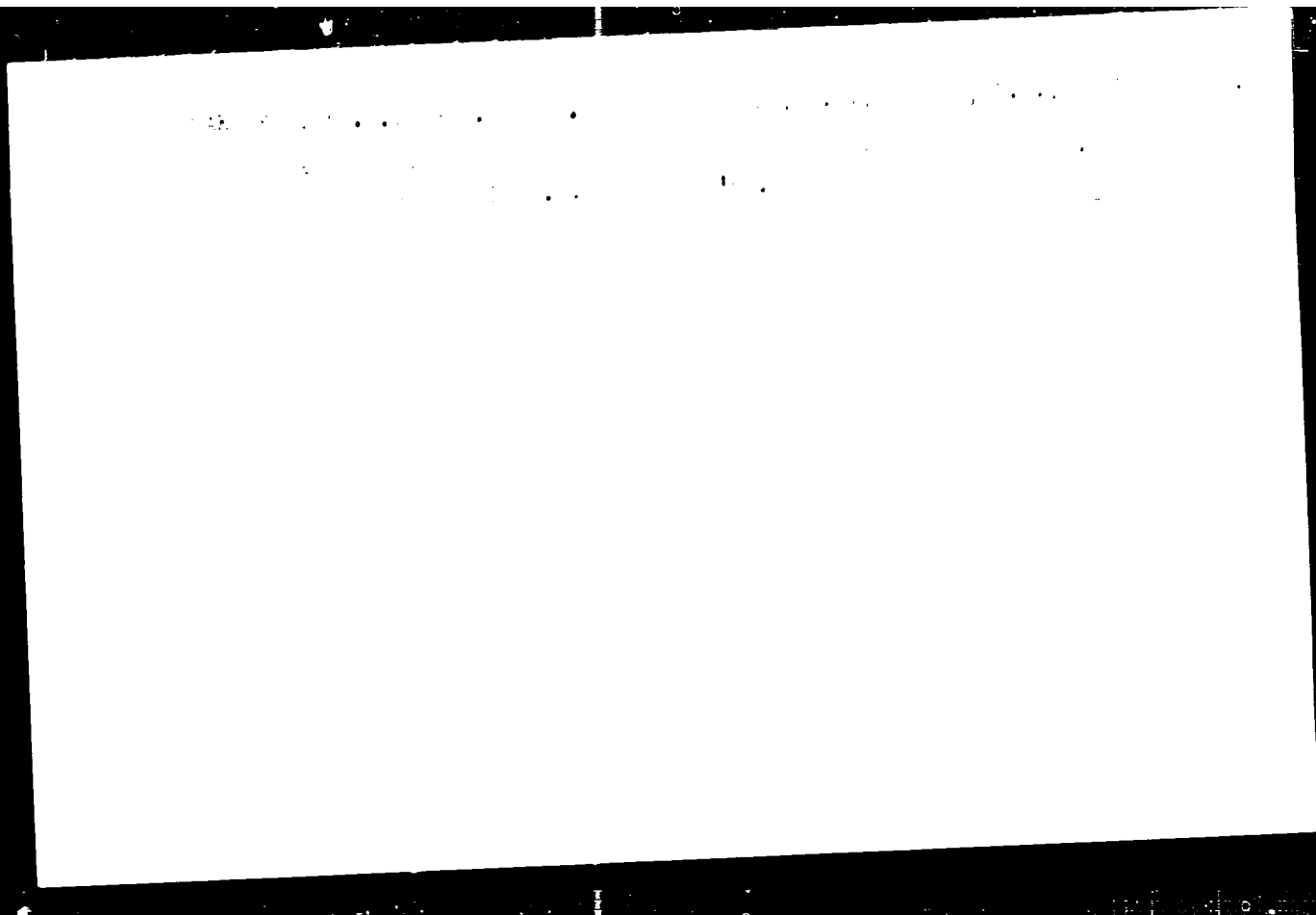
LITVINENKO, L.M.; ALEKSANDROVA, D.M.; PILYUK, N.I.

Medium and reactivity. Part 1: Effect of additions of acid on the kinetics of the reaction between aromatic amines and benzoyl chloride in an inert solvent. Ukr.khim.zhur. 25 no.1:81-94 '59.  
(MIRA 12:4)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo, kafedra organicheskoy khimii.  
(Amines) (Benzoyl chloride) (Chemical reaction, Rate of)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001340910010-2



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CIA-RDP86-00513R001340910010-2"

KLYUCHKIN, V.V., inzh.; PILYUK, N.I., inzh.; GIRIN, G.M., inzh.

Manufacture of toasted oil cakes in the Khabarovsk Oils and Fats  
Combine. Masl.-zhir.prom. 29 no.7:35-38 JI '63. (MIRA 16:4)

1. Khabarovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo  
instituta zhirov (for Klyuchkin, Pilyuk). 2. Khabarovskiy  
maslozhirovoy kombinat (for Girin).  
(Khabarovsk--Oil cake)

PIL UKHANOV, L.S., inzh.

Conference on welding in the Voroshilovgrad Economic Council. Svar.  
proizv. no. 4:47 Ap '58. (MIRA 11:4)  
(Voroshilovgrad--Electric welding)



PAIYUZHNYI, N.T., gornyy inzh.; LYASPENED, I.V., gornyy inzh.; FELYUBAN ,  
I.S., gornyy inzh.

Growth of the rate of mining of the basic development workings and  
its effect of the technical and economic indices of drifting. (Ukr.)  
Ukr. 5 no.7:12-14 J1 '61. (Mirn. 15:1)  
(Donets Basin--Coal mines and mining)

PILYUKHANOV, L.S., gornyy inzh.

Performance of the LGD cutter loader in inclined coal seams.  
Ugol' Ukr. 6 no.8:29 Ag '62. (MIRA 15:11)

1. Luganskiy sovet narodnogo khozyaystva.  
(Donets Basin--Coal mining machinery)

PILYUKHANOV, L.S., gornyy inzhener

"Repair of mining machinery" by P.S Banatov. Reviewed by  
L.S.Piliukhanov. Ugol' Ukr. 4 no. 11:43 B '60.

(MIRA 13:12)

(Mining machinery--Maintenance and repair)  
(Banatov, P.S.)

PILYUKHANOV, L.S., inzh.; LOMAZOVA, D.I., inzh.

I.G. Shtokman's article "Basic parameters for scraper conveyers."  
Ugol' 34 no.2:62 F '59. (MIRA 12:4)

1. Luganskiy sovnarkhoz.  
(Coal mining machinery)  
(Shtokman', I.G.)

AUTHOR: Pilyukhanov, L.S., Engineer

TITLE: Conference on Welding at the Voroshilovgrad Sovnarkhoz  
veshchaniye po svarke v Voroshilovgradskom sovnarkhoze

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 4, p 47 (USSR)

ABSTRACT: A Conference on problems of introducing automatic and semi-automatic welding to industry was organized on November 1, 1957 by the Voroshilovgrad Sovnarkhoz together with the Ukrainian KP Oblast' Committee. There were 200 representatives of industrial enterprises present. The conference heard the following reports: V.P. Subbotovskiy, a collaborator of the Institut elektrosvarki imeni Ye.S. Patona AN USSR (Institute of Electrowelding imeni Ye.S. Paton of the AS UkrSSR), on new welding methods; V.P. Gorelov, engineer from the Metallurgicheskiy zavod imeni Voroshilova (Metallurgical Plant imeni Voroshilov) on the welding of rollers and machine parts of metallurgical equipment; Vinichenko, chief of the welding section on welding operations at the Diesel locomotive-building Plant imeni Ilyinskoy Revolyutsii; M.I. Bashkov on experience in welding operations at the coal-mining machine-building plant imeni Parkhomenko; Vorob'yev, a welding operator from the "V. ro-

Card 1/2

1955-4-1-14

Conference on Welding at the Voroshilovgrad Sovnarkhoz

shilovgradugol'"-Combine on cold-welding of cast iron. The Conference decided to organize a technical workshop at the Voroshilovgrad House of Technics, to deliver a series of lectures on welding, and to begin a centralized electrode and carbon dioxide production and repair of welding equipment.

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PLYUKHANOV, L.S.

Miners discuss the seven-year plan. Urocl' Ukr. 3 no. 6:45 Jan 1970.  
(Ukr. 1:1:1)

(Lugansk Province--Coal mines and mining)

PILYUKHANOV, L.S.; SHCHARANSKIY, B.M.

To fight persistently for the improvement of all technical and economic indices. Ugol' Ukr. 3 no.7:47 J1 '59. (MIRA 12:11)  
(Lugansk Province--Coal mines and mining)



PILYUKHANOV, L.S.; SHCHARANSKIY, B.M.

Strengthening the links between science and production.  
Ugol' Ukr. 3 no.8:48 Ag '59. (MIRA 12:12)  
(Lugansk Province--Coal mines and mining)

BURHALO, S.M., doktor ekon. nauk, stv. red.; SHEVCHENKO, Ya.A.,  
doktor ekon.nauk, red.; YAKUSHA, G.A., kand. tekhn. nauk,  
red.; KLYAS, I.I., kand. khim. nauk, red.; VEGETNITSKIY,  
A.A., inzh., red.; ILIYUKHANCH, L.S., inzh., red.; PETELINA,  
I.I., inzh., red.; VELIKIYATSK, A.M., red.

(Problemy effektivnoyego ispol'zovaniya toplivnykh resursov  
(Donets and Dnieper Economic Regions); rational'noye ispol'zovaniye  
ratsional'nogo ispol'zovaniya toplivno-energeticheskikh  
resursov (Donetsko-Dneprovskiy ekonomicheskiy raion);  
materialy. Kiev, Naukova dumka, 1977. 200 p. (Nauka Ukrainy).

1. Nauchno-tekhnicheskaya konferentsiya po racional'nogo  
ispol'zovaniya toplivno-energeticheskikh resursov.  
Kiev, Donetsk, 1977. Institut ekonomiki i planirovaniya  
(For Shevchenko).

1. The first part of the document is a list of

the names of the

persons who

have been

identified as

being in

contact with

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KONDRASHEV, A.I. inzh. KAMALOV, V.Z. inzh. FELYUSHENKO, V.L.,  
inzh.

Hardening of large-diameter spring rolls. Mashinostroenie  
no. 4871-72 11-Ag 1964. (MIRA 17-18)

L 32267-65 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(b)/  
EWP(1) Pr-4 MJW/JD/HW

ACCESSION NR: AR4048242

S/0137/64/000/009/1052/1052

SOURCE: Ref. zh. Metallurgiya, Abs. 9I324

AUTHOR: Pilyushenko, V. L.; Kondrashov, A. I.; Tutov, I. Ye.; Savukov, V. P.; Gurozhivenko, K. F.; Kamalov, V. Z.

TITLE: High strength steel for hydropresses

CITED SOURCE: Sb. Legirovaniye staley. Kiyev, Gostekhnizdat USSR, 1963, 20-32

TOPIC TAGS: high strength metal, steel, hydropress, heat treatment, metal mechanical property/ steel KhMFN, steel 25Kh2MFN, steel 5KhNM

TRANSLATION: An investigation was made of steel KhMFN, alloyed with additions of aluminum (0.6%), boron (0.0015-0.0085%), tungsten (0.7-1.25%), sulfur (0.015-0.040%), silicon (0.3-2.1%), manganese (0.4-1.4%). Forged billets were heat treated under two conditions: 1) normalization from temperature  $A_{c3}+500^{\circ}$ , cooling at the rate of 1000/hr to  $300^{\circ}$ , and 2) quenching in oil from  $A_{c3}+500^{\circ}$ . Tempering was performed for 5 hrs at 500, 550, 600, and 650. The steel was

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ACCESSION NR: AR4048242

evaluated by mechanical tests at 20, 350, and 450°. Steel 25Kh2MFN has the highest strength and ductility. A model of a hydropress container ring (diameter 1220/1850 mm, height 880 mm) prepared from this steel has, in an annealed state,  $\sigma_{\text{max}}$  54.2-57.4 kg/mm<sup>2</sup>,  $\sigma_{\text{max}}$  70.5-75.5 kg/mm<sup>2</sup>,  $\delta$  19.4-21.6%,  $\psi$  56.5-59.8%,  $\alpha_K$  9.7-14.4 kgm/cm<sup>2</sup>, H<sub>B</sub> 217-228. The critical points of the steel are  $A_{c1}=780^\circ$ ,  $A_{c3}=830^\circ$ ,  $A_{r3}=470^\circ$ ,  $A_{r1}=340^\circ$ . Optimum temperature of austenization is 900°. Mechanical properties do not change in the cross sections of either annealed or normalized states from 900° ( $\sigma_{\text{max}}$  115 kg/mm<sup>2</sup>,  $\sigma_{\text{max}}$  133-147 kg/mm<sup>2</sup>). Additional tempering at 450° for 5 hrs increases ductility. Optimal tempering temperature (after normalization and quenching with tempering at 450°), ensuring the best combination of ductility and strength, is at 540-560°. Steel 25Kh2MFN has high hardenability. The properties of steel 25Kh2MFN are compared with those of steel 5KhNM. The resistance of steel 25Kh2MFN to tempering is determined: a) by carbide dispersion, and b) by alloying with ferrite of chromium, molybdenum and vanadium, regardless of tempering temperature. Agint the steel at 400-450° (500 and 1000 hrs) does not lower mechanical properties. Tests were performed on steel 25Kh2MFN for wear resistance, erosion resistance

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ACCESSION NR: AR4048242

and stress-rupture strength under cyclic stress (4500, sigma 50-100 kg/mm<sup>2</sup>). 8 tables. B. Samarin.

SUB CODE: MM

ENCL: 00

Extrusion, container ring

18

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ACCESSION NR: AP5003934

8/0304/65/000/001/0052/0053

**AUTHORS:** Braynin, I. Ye. (Doctor of technical sciences); Kharchenko, V. A. (Candidate of technical sciences); Kondrashev, A. I. (Engineer); Gashutin, V. P. (Engineer); Pilyushenko, V. L. (Engineer)

TITLE: Effects of additional alloying on the mechanical properties of low-carbon chromium-manganese cast steels

**SOURCE:** Mashinostroyeniye, no. 1, 1965, 52-53

TOPIC TAGS: steel, chromium steel, manganese steel/ 15KhGL<sup>a</sup> steel, 15KhGFL<sup>b</sup> steel

**ABSTRACT:** To find nickel-free cast steels with high impact strength, the effect of additional alloying on the mechanical properties of low-carbon Cr-Mn steels was investigated. The alloys were melted in a 30-kg induction furnace and specimens from the ingot periphery were annealed at 900-920C for 4 hours, while the specimens from the top and bottom parts of the ingot were normalized and tempered at 600C for 1 hour. The alloy compositions are shown in Table 1 and the mechanical properties in Table 2 on the Enclosures. It was found that alloying steel 15KhNL with Mo, V, Cu, Ti has no effect on strength and ductility and decreases the impact strength; Nb worsens all properties; V and Ti increase strength but significantly decrease

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ACCESSION NR: AP5003934

ductility and impact strength. Small additions of Zr significantly increase  
ductility and impact strength. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 2/4

L 30042-65

ACCESSION NR: AP5003934

ENCLOSURE: 01

Table 1.

Chemical composition of steels, %

| Designation | C    | Mn   | Si   | S     | P     | Cr   | Mo   | Ni   | V    | Cu   | Nb    | Zr    |
|-------------|------|------|------|-------|-------|------|------|------|------|------|-------|-------|
| 15KhGL      | 0.17 | 1.00 | 0.32 | 0.039 | 0.018 | 1.10 | —    | —    | —    | —    | —     | —     |
| 15KhGFL     | 0.16 | 0.94 | 0.21 | 0.031 | 0.016 | 1.28 | —    | —    | —    | —    | —     | —     |
| 15KhGML     | 0.16 | 0.74 | 0.08 | 0.051 | 0.027 | 1.05 | 0.27 | —    | 0.18 | —    | —     | —     |
| 15KhGDL     | 0.17 | 1.04 | 0.23 | 0.036 | 0.042 | 1.14 | —    | —    | —    | —    | —     | —     |
| 15KhGBL     | 0.14 | 0.95 | 0.14 | 0.035 | 0.018 | 1.04 | —    | —    | —    | 0.78 | —     | —     |
| 15KhOTL     | 0.18 | 0.87 | 0.21 | 0.052 | 0.011 | 0.14 | —    | —    | —    | —    | 0.041 | —     |
| 15KhOT2L    | 0.16 | 1.06 | 0.20 | 0.032 | 0.013 | 1.29 | —    | —    | —    | —    | —     | —     |
| 15KhOTFL    | 0.18 | 1.14 | 0.10 | 0.034 | 0.129 | 1.08 | —    | 0.08 | —    | —    | —     | —     |
| 15KhOMDL    | 0.13 | 0.72 | 0.14 | 0.037 | 0.032 | 0.96 | 0.33 | 0.05 | 0.13 | —    | —     | —     |
| 15KhO2L     | 0.15 | 2.30 | 0.19 | 0.033 | 0.018 | —    | —    | —    | —    | 0.90 | —     | —     |
| 15KhO2L     | 0.16 | 1.55 | 0.42 | 0.025 | 0.009 | 1.10 | —    | 0.02 | —    | —    | —     | —     |
| 15KhO2TL    | 0.16 | 1.82 | 0.15 | 0.011 | 0.028 | 0.95 | —    | —    | —    | —    | —     | —     |
| 15KhO2Tel   | 0.23 | 0.96 | 0.29 | 0.041 | 0.077 | 1.08 | —    | —    | —    | —    | —     | 0.06  |
| 15KhGL      | 0.19 | 0.72 | 0.35 | 0.031 | 0.017 | 1.14 | —    | —    | —    | —    | —     | Trace |
| 15KhOTL     | 0.20 | 0.95 | 0.25 | 0.030 | 0.019 | 1.04 | —    | —    | —    | —    | —     | —     |

"highmetal" with 0.15-0.20% C<sub>4</sub> was introduced

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ACCESSION NR: AP5003934

ENCLOSURE: 02

Table 2. Mechanical properties of experimental steels after heat-treating and normalizing

| Designation | After heat treating              |                                  |            |        |                                  |     | After normalizing and tempering  |                                  |            |        |                                  |     |
|-------------|----------------------------------|----------------------------------|------------|--------|----------------------------------|-----|----------------------------------|----------------------------------|------------|--------|----------------------------------|-----|
|             | $\sigma_s$<br>KG/mm <sup>2</sup> | $\sigma_b$<br>KG/mm <sup>2</sup> | $\delta_5$ | $\psi$ | $\alpha_n$<br>MM/cm <sup>2</sup> | HB  | $\sigma_s$<br>KG/mm <sup>2</sup> | $\sigma_b$<br>KG/mm <sup>2</sup> | $\delta_5$ | $\psi$ | $\alpha_n$<br>MM/cm <sup>2</sup> | HB  |
| 15Kh0L      | 48.7                             | 82.3                             | 21.2       | 82.3   | 13.4                             | 198 | 31.0                             | 53.0                             | 31.0       | 64.3   | 13.3                             | 143 |
| 15Kh0FL     | 48.0                             | 82.4                             | 18.4       | 58.2   | 8.1                              | 198 | 41.8                             | 59.2                             | 28.4       | 60.0   | 12.1                             | 170 |
| 15Kh0ML     | 44.2                             | 60.8                             | 22.0       | 61.7   | 7.7                              | 192 | 30.8                             | 52.9                             | 29.4       | 62.3   | 10.9                             | 149 |
| 15Kh0DL     | 50.0                             | 82.8                             | 21.2       | 61.0   | 8.2                              | 196 | 41.5                             | 57.7                             | 25.4       | 60.8   | 9.2                              | 163 |
| 15Kh0BL     | 29.0                             | 48.0                             | 27.0       | 55.8   | 6.2                              | 140 | 32.3                             | 45.6                             | 34.4       | 69.3   | 9.3                              | 131 |
| 15Kh0TL     | 47.7                             | 61.0                             | 20.0       | 41.8   | 5.8                              | 192 | 35.0                             | 53.2                             | 28.0       | 50.0   | 6.4                              | 149 |
| 15Kh0T2L    | 50.3                             | 63.3                             | 21.0       | 49.7   | 5.1                              | 196 | 36.3                             | 56.2                             | 29.0       | 61.0   | 7.2                              | 156 |
| 15Kh0TFL    | 61.2                             | 74.2                             | 12.0       | 31.5   | 1.1                              | 228 | 38.8                             | 66.8                             | 22.0       | 32.5   | 3.4                              | 187 |
| 15Kh0MDL    | 48.8                             | 61.7                             | 20.8       | 61.0   | 11.0                             | 207 | 57.0                             | 56.2                             | 25.6       | 61.0   | 11.7                             | 170 |
| 15Kh02L     | 54.8                             | 65.0                             | 15.8       | 36.3   | 0.7                              | 202 | 53.2                             | 63.7                             | 15.0       | 29.9   | 2.3                              | 196 |
| 15Kh02FL    | 44.0                             | 61.0                             | 21.0       | 48.3   | 8.3                              | 179 | 39.0                             | 60.8                             | 24.8       | 42.7   | 7.5                              | 150 |
| 15Kh02TaL   | 49.0                             | 62.5                             | 20.8       | 60.2   | 11.0                             | 187 | 33.7                             | 54.3                             | 26.8       | 64.3   | 15.0                             | 163 |
| 15Kh0L      | 30.2                             | 60.3                             | 19.8       | 48.7   | 5.2                              | 206 | 31.0                             | 57.2                             | 26.6       | 48.7   | 5.3                              | 159 |
| 15Kh0TaL    | 46.5                             | 61.8                             | 22.8       | 58.3   | 10.8                             | 194 | 39.3                             | 52.4                             | 28.2       | 60.3   | 10.4                             | 145 |
| 15Kh0L*     | 45.4                             | 60.8                             | 24.8       | 64.7   | 18.3                             | 179 | 32.0                             | 54.4                             | 30.0       | 61.5   | 15.7                             | 149 |

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\* modified with "nichmetal"

PROKOP'YEVA, M.S.; PILYUSHENOK, S.V.; NIKOLAYEVA, R.I.; CHECHENKOVA, M.V.;  
MIKHAYLOVA, A.A.; STRELKOVA, A.V.; LOPUKHA, N.Ye; KOZLOV, P.N., red.;  
VOINOV, K.F., red.; BABESHKINA, N., tekhn. red.

[Economy of Pskov Province; statistical collection] Narodnoe kho-  
ziahstvo Pskovskoi oblasti; statisticheskii sbornik. Leningrad,  
Gosstatizdat, 1960. 175 p. (MIRA 14:6)

1. Pskov (Province) Statisticheskoye upravleniye. 2. Rabot-  
niki Statisticheskogo upravleniya Pskovskoy oblasti (for all  
except Kozlov, Voinov, Babeshkina). 3. Nachal'nik Statisticheskogo  
upravleniya Pskovskoy oblasti (for Kozlov). 4. Zamestitel' nachal'-  
nika Statisticheskogo upravleniya Pskovskoy oblasti (for Voinov)  
(Pskov Province—Statistics)

KOLESNIKOV, I., general-mayor med. sluzhby, Prof.; SHILOV, P., polkovnik  
med. sluzhby, prof.; PILVUSHIN, P., mayor med. sluzhby

Relation of therapeutic diet to functional disorders of the stomach  
in thermal burns. Voen.-med. zhur. no.10:71-77 O '57 (MIRA 12:7)

(DIETS, in var. dis.

burns, relation to stomach funct. (Rus))

(BURNS, therapy,

diets, relation to stomach funct. (Rus))

(STOMACH, in var. dis.

burns, relation to diet ther. (Rus))

PILYUSHIN, P.V., mayor meditsinskoy sluzhby

Gastric secretion and motor function in thermal burns. Voen.-med.  
zhur. no.8:16-20 Ag '57. (MIRA 10:12)

(BURNS, physiology,

gastric secretion & motor funct. (Rus))

(STOMACH, in various diseases,

burns, motor funct. (Rus))

(GASTRIC JUICE,

secretion in burns (Rus))



KOLESHNIKOV, I.S., general-major meditsinskoy sluzhby, prof.; SHILOV, P.I.,  
polkovnik meditsinskoy sluzhby, prof.; Pilyushin, P.V., mayor  
meditsinskoy sluzhby

Current problem in the diet therapy of burns. Voen.-med. zhur. no.8:  
32-38 A; 1960. (MIA 14:7)  
(BURNS AND SCALDS) (DIET IN DISEASE)

Pilyushin, P. V.; Pinchuk, V. P.; Molchanov, N. S.; Kuznetsov, V. P.;  
Katrushenko, I. N.; Klyachkin, L. M.--Leningrad

"Functional Disturbances and Morphological Changes of Internal Organs in  
Burn Disease."

report submitted for the 27 Congress of Surgeons of the USSR, Moscow, 23-29 May 1960.

ILYUSHIN, P.V.

"The Function of the State in the Development of the  
1. Military Medicine

Lecture delivered at a conference of Soviet military physicians at the  
Military Medical Academy Im. I.M. Seleznev, Leningrad, 1954.

PILYUSHIN, P.V., Maj. Med. Serv.

"The Secretory-Motor Function of Stomach in the Case of Thermal Burns." Voyenno-Medsinskiy Zhurnal, No. 8, August 1947.

FINLAND, I. A.

THE  
SOME  
WILL  
THE

PILYUSHIN, P.V. (Leningrad, Klinicheskaya ul., d.3, kv.6)

On the disorders of gastric digestion in patients with thermal burns.  
Vest.khir. 83 no.8:51-56 Ag '59. (MIRA 13:1)

1. Iz terapevticheskoy kliniki usovershenstvovaniya vrachey (nach. -  
prof. P.I. Shilov) i gosptal'noy khirurgicheskoy kliniki (nach. -  
prof. I.S. Kolesnikov) Voenno-meditsinskoy ordena Lenina akademii im.  
S.M. Kirova.

(BURNS nutrition & diets)

SHILOV, Pavel Ivanovich, prof.; PILYUSHIN, Petr Viktorovich, kand.  
med. nauk; Prinizial uchastiye BELOV, N.A., kand. med. nauk;  
KOMAROV, F.I., red.; KHAMASH, G.A., tekhn. red.

[Internal pathology in burns (thermal)] Vnutrenniaia patolo-  
giia pri ozhogakh (termicheskikh). Leningrad, Medgiz, 1962.  
294 p. (MIRA 15:5)

(BURNS AND SCALDS)

BRASLAVSKIY, I., tekhnik-mekhanik; PILYUTA, V., tekhnik-mekhanik

Eliminating play in the spline joints of the cardan axle in ZIS-150  
automobiles. Avt.transp.33 no.8:34 Ag'55. (MLRA 8:12)  
(Automobiles--Transmission devices)



I 9609-66 ENT(d) IJP(c)

ACC NR: AP6000547

SOURCE CODE: UR/0040/65/029/006/1092/1097

AUTHORS: <sup>44, 55</sup> Pilyutik, A. G. (Moscow); <sup>44, 55</sup> Talalayev, P. A. (Moscow)

29  
B

ORG: none

TITLE: Improving estimates of solutions of systems of linear differential equations with variable coefficients

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1092-1097

TOPIC TAGS: differential equation, linear differential equation

ABSTRACT: The authors consider the system

$$\frac{dx_i}{dt} = \sum_{m=1}^n a_{im}(t) x_m \quad (i = 1, \dots, n) \quad (1)$$

of homogeneous differential equations, where  $a_{im}(t)$  are continuous differentiable functions on a given finite time interval  $[t_0, T]$ . A comparative analysis is made of various estimates for solutions describing perturbed motion based on sufficient criteria for stability. Certain ways are proposed to improve the auxiliary functions involved, which allow the obtaining of rather flexible and precise estimates for variable coefficient linear differential equations. Orig. art. has. 2 figures and 43 formulas.

Card 1/1 500 CODE: 12/ SUM DATE: 21 May 65/ ORIG REF: 001

2

KARACHAROV, Konstantin Andreyevich; Pilyutik, Anatoliy Grigor'yevich;  
LIVARTOVSKIY, I.V., red.; PLAKSHE, L.Yu., tekhn. red.

[Introduction to the technical theory of the stability of motion]  
Vvedenie v tekhnicheskuyu teoriyu ustoychivosti dvizheniya. Mo-  
skva, Fizmatgiz, 1962. 243 p. (MIRA 16:3)  
(Motion)

PILYUTIK, N., inzh.; MOSKOVKIN, F., inzh.; CHOBOTOV, K., inzh.

How to adapt arched buildings to be mechanized poultry houses.

Sel'. stroi. 17 no.2:6-7 F '63.

(MIRA 16:3)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniyu  
elektrifikatsii sel'skogo khozyaystva.

(Poultry houses and equipment)

L 28848-66

ACC NR: AP6013818

(A) SOURCE CODE: UR/0356/65/000/012/0033/0035

AUTHOR: Pilyutik, N. (Engineer)

ORG: All-Union Scientific Research and Design Institute for Supplying Electric Power to Agricultural Installations and Other Customers in Rural Regions (Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut po elektrosnabzheniyu ob'yektov sel'skogo khozyaystva i drugikh potrebiteley v sel'skikh rayonakh) VNIPIsel'elektro

TITLE: Substation built of reinforced cement

SOURCE: Tekhnika v sel'skom khozyaystve, no. 12, 1965, 33-35.

TOPIC TAGS: electric substation equipment, electric transformer, transmission line /KTP-250 substation

ABSTRACT: A new standard 250-kva transformer substation designed for a rural distribution system is described. It is of an indoor KTP-250 type, being housed in a booth made of reinforced cement. The view of the booth is shown in a photo. The substation is designed for lowering the voltage from 6-10 kv to 0.4 kv. It is equipped with a 250-kva three-phase transformer with aluminum-wire windings of a 6-10/0.4 kv ratio. The high-voltage windings are connected to the 6-10 kv trans-

Card 1/2

UDC: 631.37:621.311.42

L 2884B-66

ACC NR: AP6013818

mission line via fuses and a disconnect switch. The low voltage windings are connected to a 400-v distribution panel. The inside arrangement and wiring diagram are illustrated. The substation is assembled in the booth by the manufacturing plant and then delivered on a truck to the site of installation. The connections of the substation with the high-voltage line (by means of underground insulated cable) and with low-voltage lines are also illustrated. Lightning arresters are used for protection of high-voltage connections. It is estimated that 363,000 new substations will be built in the country before 1970 and 110,000 old substations will be reconstructed. The KTP-250 substations will be included in this number. Orig. art. has: five figures.

SUB CODE: 09 / SUBM DATE: None

Card 2/2 CC

PILYUTIK, N.G., inzh.; SHESTOPALOV, V.I., inzh.

Efficient grounding devices for rural low-voltage networks.  
Mekh. i elek. sots. sel'khoz. 19 no.3:50-52 '61. (MIRA 14:6)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniyu  
elektrifikatsii sel'skogo khozaystva.  
(Electric currents Grounding)

SOV/137-57-10-10107

Translation from Referativnyi zhurnal, Metallurgiya, 1957, Nr 10, p 27 (USSR)

AUTHOR Pilyuto, V S

TITLE A Study of Metal Flow Into the Upper and Lower Die Cavities at Various Deformation Rates (Izuchenije zatekaniya metalla v verkhnyuyu i nizhnyuyu polosti shtampa pri razlichnykh skorostyakh deformirovaniya)

PERIODICAL Sb. stud. nauchn. rabot. Belorussk. politekh. in-t, 1957, Nr 3, pp 11-16

ABSTRACT This work is devoted to a study of the hypothesis that there is preferential flow of metal into the upper or lower cavity of a die in accordance with the velocity conditions of deformation.  
Ya O

Card 1 of 1

SOBOLEV, V.I.; PILYUTSKIY, N.D.

Loading and unloading operations at Leningrad's commercial harbor.  
Mekh. trud. rab. 12 no.11:40-42 N '58. (MIRA 11:12)  
(Leningrad--Harbor) (Loading and unloading)



KRIVOPUSK, Petr Konstantinovich; PILYUTSKIY, Nikolay Danilovich; MOSHAROVA,  
T.P., red.; SARAYEV, B.A., tekhn. red.

[Along the road of technical progress] Dorogoi tekhnicheskogo pro-  
gressa. Moskva, Izd-vo "Morskoi transport," 1960. 78 p.

(MIRA 14:6)

(Cargo handling—Equipment and supplies)

AUTHORS: Sobolev, V.I. and Pilyutskiy, N.D. SOV/118-56-11-14/19

TITLE: Transshipping Operations at the Leningrad Commercial Sea Port (Peregruzochnyye raboty v Leningradskom morskoy tor-govom portu)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 11, pp 40-42 USSR

ABSTRACT: This is a list of the various mechanical means applied in transshipping operations at the Leningrad port. The following devices are mentioned: a special grab for the removal of lumber from water; a truck-mounted loading device for bale-goods with a grab clamp on the side of the loader; truck-mounted loaders of the type UPM-6 and 4004 for the loading of cotton into freight cars; truck-mounted loaders equipped with various load-lifting appliances like fork-shaped claws, crane arms, buckets, etc.; a loading machine of the type PTS-2 for the stowing of salt in holds, and a machine of the type MVS-1 for the unloading of salt from freight cars and various other re-loading apparatus. Though the standard of complex mechanization at the Leningrad port has risen

Card 1/2

NOV 1956-11-11 10

Transshipping Operations at the Leningrad Commercial Sea Port

by 2.0 % over 1956, there are still many problems to be solved by the scientific research organizations of the Ministerstvo morskogo flota (Ministry of Merchant Marine). There are 2 photos and 2 diagrams.

1. Harbors--Equipment 2. Materials--Handling 3. Industrial equipment

Card 2 of 2

ZHLANOV, M.M.; KOSTRYUKOV, G.V.; ASFANDIYAROV, Kh.A.; MAKUTOV, R.A.;  
KONDAKOV, A.N.; TURKOV, V.M.; SILIN, V.A.; FILYUTSKIY, O.V.;  
SHELDYBAYEV, B.F.; PETROV, A.A.; SMIRNOV, Yu.S.; KOLESNICHENKO,  
A.Ye.; DROZDOV, I.P.; IVANTSOV, C.M.; TSYGANOV, B.Ya.;  
KORONOGOV, A.P.; VDOVIN, K.I.; ALEKSEYEV, L.A.; GAYDUKOV, I.T.;  
LIPOVESKIY, A.Ya.; LANYUSHEVSKIY, V.S.; VELICHNEV, I.A.;  
ALEKSEYEV, L.G.; KRASYUK, A.L.; IVANOV, G.A.

Author's communications. Neft. i gaz. prom. no.: 62-68

Ap-Je '64.

(MIRA 17:9)

PILYUTSKIY, S.V., inzh.

Flexible metal hose for drilling units. Bezop.truda v prom. i  
no.4:16-17 Ap '62. (MIRA 15.5)

1. TSentral'nyy remontn.-mekhanicheskiy zavod, g. Gr. znyy.  
(Hydraulic mining--Equipment and supplies)

PILYUTSKIY, G.V., inzh.

Unit for mechanized underground repair of oil wells. Bezop.  
truda v prom. 4 no. 7:32-33 S '60. (MIRA 13:9)

1. Tsentral'nyy remontno-mekhanicheskiy zavod (g. Groznyy).  
(Oil wells--Equipment and supplies)

PILYUTSKIY, O. V., inzh.

Synchronous pipe loader. Bezop. truda v prom. 6 no.9:33  
S '62. (MIRA 16:4)

1. Tsentral'nyy remontno-mekhanicheskiy zavod, g. Groznyy.

(Loading and unloading—Equipment and supplies)

117 12-10-6-31 604  
AUTHORS: Pilgutskiy, A.V. and Mazvriyskiy, A.S.  
TITLE: A Pneumatic Wrench (Pnevmaticheskiy klyuch)  
PERIODICAL: Byulleten' izobreteniy, 1957, Nr 1, p 11, 11004  
ABSTRACT: Class 51, 53 G. Nr 113-01 (1-2.46 of 14 August 1957). Submitted to the Committee for Inventions and Discoveries at the Ministers' Council of USSR. A pneumatic wrench for screwing together and unscrewing pipes during lowering-lifting operations in oil wells, with the use of a rotating spindle and a gear reducer; the efficiency of the drive increased by the use of a rotary motor and a pneumatic piston wrench driving one shaft; the power of the rotary motor being lower than the power of the wrench.

Card 1/1



FILE, 7.

Kinematics of dye jiggers. P.44 .

MAGYAR TEXTILTECHNKA. (Textilipari Muszaki es Tudomanyos Kozlalo)  
Budapest, Hungary. V 1. 11, no. 11, Nov. 1959.

Monthly List of East European Acquisitions. (EEAI) LC Vol. 9, no. 2,  
Feb. 1960 Uncl.

Pilz, L.

Pilz, L. Reduction of the number of defective castings through the use of vacuum during casting, both in sand and in molds. p. 377.

Vol. 4, no. 12, Dec. 1956

SLEVAŘENSTVÍ

TECHN. LIT.

Czechoslovakia

So. East European Accessions, Vol. 6, May 1967



~~Metallurg~~, Pils, 11

Chemical Abst.  
Vol. 48 No. 3  
Feb. 10, 1954  
Explosives and Explosions

① chem  
Special ~~Researching~~ equipment in the chemical  
industry. ~~(Oskar Pils, Chem. Průmysl 3, 285-8 (1953).—~~  
A review and evaluation. L. A. Helwich

9-2-54  
888

PILZ, Miloslav, inž. dr. (Prague):

Self-ignition in the food industry. Prum potravin 16 no.4:  
181-183 Apr 1964.

PILZ, Miloslav, inz., dr. (Praha)

Dust causing fire and explosion in the food industry enterprises.  
Prum potravin 13 no.12:665-667 D '62.

P. L. Z. M.  
C  
P. L. Z. M.: Přehled požárně nebezpečných látek.  
Prague: Státní nakl. techn. lit. 1956. 118 pp. Kls. 11.30.  
Reviewed in Chem. Abstr. 50, 1670(1956).

MT

1.0

et al. for the first time. The results of the study are  
presented in the following table. The data are  
presented in the following table.

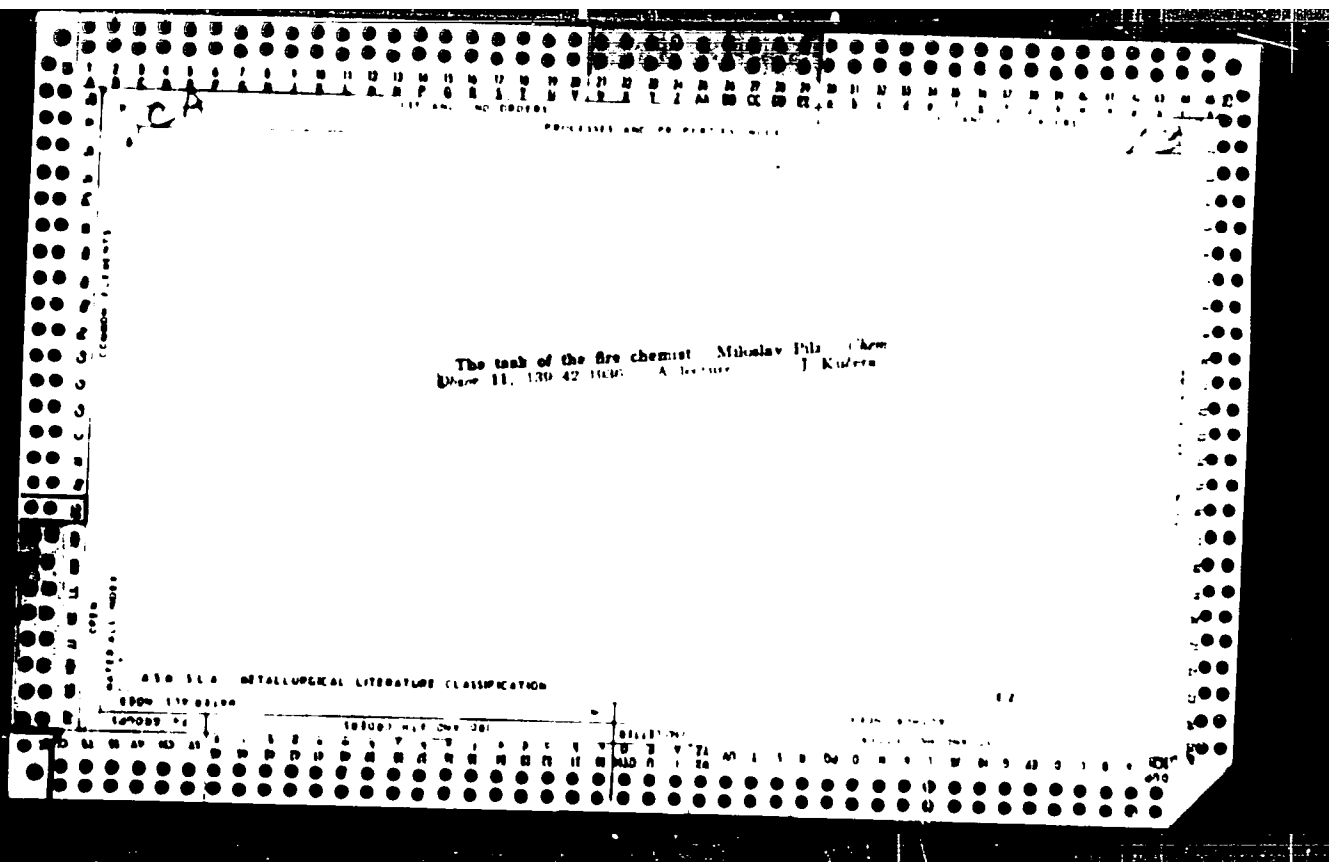
The first two columns of the table are the names of the  
subjects.



PILZ, M.

Pilz, M. Metals from the point of view of fire prevention. P. 106.  
Work in heat and the proper nutrition of workers. p. 108. HUTNIK. Praha.  
Vol. 5, no. 4, Apr. 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4,  
no. 10, Oct. 1955.      Uncl.



PILZ, J. pfried, inz.

Central noncontact control of large distribution stations of electric current. Automatizace 6 no.10:241-245 G '63.

1. Ustav regulace a rizeni Bernicke akademie ved, razdany.

CA

7

Analytical applications of trithiocarbonic acid. I. De-  
termination of copper. J. Veiglauer and W. Pitzel.  
Z. Anal. Chem. 1962, 351, 101-102. Trithiocarbonic  
acid can be used to ppt Cu as  $CuS_3$ . Acid contents from 0.1  
to 0.5% are permissible. The obtained ppt. is easily filtered  
and washable. The presence of chlorides up to 4% does  
without effect on the detn.  
C. J. Veiglauer

CA

[illegible][illegible]

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16775.

Author : Kopecký J., Kahoun J., Mácha J., Pilz Z.

Inst :

Title : On the Investigation of the Type of the Kravarzh  
Cattle  
(Ob issledovanii tipa kravarzhskogo krupnogo rogatogo  
skota)

Orig Pub: Sbor. Vysoké školy zeměd. a Lesn. fak. Brně, 1956, A,  
No 4, 249-259.

Abstract: In order to study the types of build, the measure-  
ments of 13 bulls older than 2 years and of 81 cows  
over 5 years of the Kravarzh breed were effected.  
By way of comparison, the measurements of the pure-

Card : 1/3

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16775.

bred Red-spotted cows over 5 years were also carried out. For the Kravarzh cattle, the following characteristics were obtained (M in cm): length of the head 47.29, width of the head 22.71; height at the withers 129.62, at the spine 128.00, at the sacrum 131.3, at the base of the tail 137.39; depth of the breast 66.95, width of the breast 44.27; width at the thighs 49.81; width of the pelvis 44.83; transverse length of the trunk 158.34; length of the pelvis 50.67; circumference of the shank 19.58; size of the breast 191.66. M characteristics for the Red-spotted cows are 44.09, 20.87, 134.40, 133.61, 141.13, 142.74, 67.32, 44.80, 51.58, 46.73, 161.06, 52.98, 20.46 and 198.80, respectively. A difference

Card : 2/3

22

1. FILIPINI, Y. I.

2. [illegible]

3. wine - feeding and feeding table

7. fattening wine on [illegible]. [illegible] [illegible] 11, 1961.

9. Monthly List of Russian Accessions. Library of Congress, [illegible] [illegible] [illegible].



L 24258-66 ENT(m)/ENP(j)/T WW/RM

ACC NR: AP6007834

SOURCE CODE: UR/0120/66/000/001/0189/0190

AUTHORS: Chernobay, A. V.; Pimakhov, A. S.; Nagornaya, L. L.;  
Kolesnikov, L. N.

34  
B

ORG: VNII of Single Crystals, Khar'kov (VNII monokristallov)

TITLE: Plastic scintillators with increased heat endurance

SOURCE: Pribery 1 tekhnika eksperimenta, no. 1, 1966, 188-190

TOPIC TAGS: scintillator, heat resistant plastic, block copolymer, styrene, benzene

ABSTRACT: The article describes a method of preparing plastic scintillators with heat endurance up to 110C, based on co-polymers of styrene with divinyl benzene with different classes of luminors. The plastic scintillators were produced by block polymerization in glass ampoules in an atmosphere of nitrogen. The scintillation efficiency was measured with a photomultiplier in response to excitation

Card

1/2

UDC: 535.373.12

L 24258-66

ACC NR: AP6007834

to gamma rays from Co<sup>60</sup>, relative to a polystyrene block with p-terphenyl (2%) + POPOP (0.1%). The Wick method was used to test for heat endurance. An investigation of heat-induced aging of the scintillators has shown that the most stable against aging are 'joined' plastic scintillators with 1, 1, 4, 4-terphenyl-butadiene-1, 3; 1- $\alpha$ -naphthyl, 2- $\beta$ -naphthyl ethylene, and 2-(4-biphenyl), 5-( $\alpha$ -naphthyl), oxazole-1, 3. In all cases, heating the plastic scintillators reduces the scintillation efficiency appreciably. It is concluded that joining together the polymerizing base of the scintillator by means of divinyl benzene increases the heat endurance of the scintillator. Orig. art. has: 2 tables.

SUB CODE: 20// SUBM DATE: 06Feb65/ ORIG REF: 003/

Card

2/2 dda

L 13615-66 EWT(m)/EWP(v)/EWP(j)/T/ETC(m) WH/RM

ACC NR: AP6000958

(A)

SOURCE CODE: UR/0286/65/000/022/0042/0042

AUTHORS: Chernobay, A. V.; Gurlov, O. A.; Pinekhov, A. S.

36  
B

ORG: none

TITLE: A method for cementing optical elements. Class 22, No. 176346 [announced by All-Union Scientific Research Institute of Single Crystals (Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 42

TOPIC TAGS: polymer, adhesive, optical element, cross linking agent, copolymerization, styrol

ABSTRACT: This Author Certificate presents a method for cementing optical elements with adhesives based on polymer materials. To increase the opticothermal stability of the cemented joints, a copolymer of styrol and citraconic anhydride with a cross-linking agent is used as the adhesive. Dimethacrylate of ethylene glycol may be employed as the cross-linking agent.

SUB CODE: 13,07

SUBM DATE: 02Jan64

Card 1/1 HUW

UDC: 621.792:678.746.22:547.462.3

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

4-3

Abs Jour : Ref Zhur - Biol., No. 1, 1958, 29811

Author : Pimukhov, F.S.

Inst : The All-Union Institute for Plant Cultivation.

Title : New Tomato Varieties and Their Introduction into Kolkhoz Production in Uzbekistan.

Orig Pub : Tr. po prikl. botan. genet. i selektsii, 1957, 31, No. 2, 267-269.

Abstract : As a result of variety studies and production try-outs of more than 100 tomato varieties at the Central Asian Station of the All-Union Institute for Plant Cultivation, three selection varieties of I.P. Brezhnev (the Maykopskiy Brozhaynyy 2090, Temno-krasnyy 2077 and Ranniy VIR 2094) appeared as prospective tomatoes for Uzbekistan. The article gives the results of the try-outs and a short characterization of these varieties.

Card 1/1

- 18 -

PIMANOV, A.

Determining the quality of sunflower seeds and the system of calculations relating to them. Muk.-elev. prom. 27 no.12-8-12  
D '61. (MIRA 1962)

1. Inspektsiya po kontrolyu za zakupkami zernovykh i maslichnykh kul'tur Gosudarstvennogo komiteta zapotovok Soveta Ministrov SSSR.  
(Sunflower seed)

PIMANOV, A.

"Harmful impurities in grain" by E.D.kazakov. Reviewed by A.  
Pimanov. Muk.-elev. pror. 28 no.2:32 F '62. (Minsk 1962)

1. Gosudarstvennyy komitet zagotovok Soveta Ministrov SSSR.  
(Grain--Cleaning) (Grain handling) (kazakov, E.D.)

MAKAROV, V.; PROKHOROVA, A.; PIMANOV, A.

Increasing the volume weight of grain by drying. Muk.-elev. prom.  
26 no.9:12-13 S '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov  
yego pererabotki (for Makarov, Prokhorova). 2. Proizvodstvenno-  
tekhnicheskoye upravleniye Goskhlebkomiteta (for Pimanov).  
(Grain-- Drying)

TEVOSYAN, V.; PIMANOV, A.

Give special attention to the procurement and storage of strong and durum wheats. Muk.-elev. prom. 26 no.6:3-5 Je '60.

(HIRA 13:12)

1. Zamestitel' nachal'nika Proizvodstvenno-tekhnicheskogo upravleniya Goskhlebkomiteta (for Tevosyan). 2. Glavnyy tekhnolog po zernu Proizvodstvenno-tekhnicheskogo upravleniya Goskhlebkomiteta (for Pimanov).

(Wheat--Storage)



PIMBURSKAYA, M.I.

✓Galena in Triassic sediments of Mt. Bogdo-Ula. M. P. G. Kozlov and M. I. Pimburskaya (N. G. Chaykovskaya, State Univ., Urumchi, Xinjiang, U.S.S.R.). Mineralogicheskiy Zhurnal, 1968, 10, 222-23 (1968).—Sedimentary Pb-Zn ore deposits, of the type Mischernich (Rhine-land), Upper Silesia, and Cu sandstone of Mottram (England) and the River Lena Basin, are highly important. The widespread occurrence of galena in Paleozoic sediments of the Russian platform, the phosphorites of Podolia, etc. are perfectly analogous to those in Mesozoic formations of Mt. Bogdo-Ula. The porous structure of the greenish gray limestone is caused by the rich fossils; druses with water-clear crystals of dolomite and aralcine are directly visible in the binocular microscope, and galenite in polished sections, besides clastic terrigenous sedimentary minerals. The galena grains 0.5 to 5 mm. in diam. are easily isolated by HCl from the carbonate rock; Sb, Zn, and Ag could not be detected by microchem. tests. W. Elze.

PIMBURGSKAYA, M.I.

Classification of the Lower Syranian opoka in the lower Volga  
Valley. Uch.zap.SGU 65:149-163 '59. (MIRA 16:1)  
(Volga Valley--Rocks)

*PIMBURGSKAYA, M. I.*

USSR/Minerals - Analcite

Card 1/1      Pub. 22 - 41/50

Authors      : Kolbin, M. F., and Pimburgskaya, M. I.

Title        : Analcite in sedimentary rocks of the B. Bogdo mountain

Periodical   : Dok. AN SSSR 100/1, 155-157, Jan. 1, 1955

Abstract     : Announcement is made of the discovery of analcite ( $\text{NaAlH}_2\text{Si}_2\text{O}_7$ ) in the sedimentary rocks of the B. Bogdo mountain. Twelve Russian and USSR references (1871-1952). Illustration.

Institution   : The N. G. Chernishevskiy State University, Saratov

Presented by: Academician N. M. Strakhov, November 3, 1954



PIMENKOV, P.T., otv. za vypusk

[Eleventh session; a collection of documents] XI sessia;  
sbornik dokumentov. Moskva, Profizdat, 1960. 28 p.  
(MIRA 16:5)

1. World Federation of Trade Unions. General Council.  
(World Federation of Trade Unions)

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MEMO

for maintenance of roads in the Road Administration Unit.  
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E193/E383

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TITLE: The effect of roughening of the roll surface on the degree of deformation during planishing of steel plate

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 1, 1963, 89 - 96

TEXT: The object of the present investigation was to explore the possibility of improving both the planishing operation and the quality of the finished plate, suitable for subsequent tinning, by using rolls with a rough surface. To this end, the effect of the variation of the contact friction, roll diameter and width of the plate on the degree of deformation during planishing was studied. The conditions under which a defect known as "distortion of the plate geometry" could occur were also investigated. Steel 08KП (08KP) was used in the experiments conducted on specimens 712 mm long, 0.20-1.0 mm thick and 30-712 mm wide, rolled on a four-high production stand or on a two-high laboratory stand with rolls 500 or 200 mm in diameter. Polished, ground and roughened surfaces were used, the roll-surface finish being, respectively, Card 1/4



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class 10, 7 and 5-6, class 10 corresponding to  $H_{sk} = 0.287 \mu$  and class 6 to  $H_{sk} \leq 3.25 \mu$ . No lubricants were used in the rolling experiments, the increase in contact friction being attained with the aid of sand or powdered chalk. Typical results demonstrating the combined effect of various factors on the degree of deformation are reproduced in Fig. 2, where the reduction ( $\epsilon$ ) is plotted against the initial thickness (mm) of the plate; the values of  $B$  (mm) given in each graph represent the width of the plate; curves 1 and 3 relate to results obtained on rough rolls, curves 2 and 4 to those obtained on polished rolls; the diameter of the rolls was 500 mm (curves 1 and 2) or 192 mm (curves 3 and 4). The results indicated that the effect of increasing the contact friction depended on the  $B/H$  ratio, where  $B$  is the width and  $H$  is the thickness of the plate. If  $\epsilon_{\mu_1}$  and  $\epsilon_{\mu_2}$  denote, respectively, the reduction attained on rough and polished rolls, it was found that the ratio  $\epsilon_{\mu_1} / \epsilon_{\mu_2} = \lambda$  was less than unity for low values of  $B/H$ , becoming equal to unity for a critical value of  $B/H = 500-1000$  and being

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greater than unity at  $B/H$  exceeding this critical value (the critical value of  $B/H$  increased with decreasing roll diameter). This means that for a given width of the plate and a given roll diameter, greater deformation can be attained by increasing the contact friction, i.e. by using roughened rolls only if the thickness of the plate is less than its critical value. The results of experiments in which the plate was rolled on a stand with the bottom and top rolls having a different surface finish indicate that the distortion of the plate (upwards or downwards bending of the plate when cut into short lengths), which sometimes occurs in practice, is caused by a different rate of wear of the top and bottom rolls; this effect was more pronounced when polished rolls were used. There are 3 figures and 3 tables.

ASSOCIATION: Magnitogorskiy gorno-metallurgicheskiy institut  
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ANTONOV, Sergey Lvovich; KOYAROV, Mikhail Lvovich; KUZNETSOV, Mikhail Ionovich; LITVINOV, Aleksandr Fyodorovich; RAYCHENKO, Leonid Vladimirovich; SPARKIN, Nur Mazilovich;

Cold sheet-steel rolling. Kholodnaya prokatka zhest. Moskva, Metallurgiya, 1964. 266 p. (MIRA 18:2)

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89-96 '63. (MIRA 16:2)

1. Magnitogorskiy gorno-metallurgicheskiy institut.  
(Rolling (Metalwork)) (Deformations (Mechanics))